**Index of Claims** 



Application/Control No.

10/792,336

Examiner

DON N. VO

Reexamination

Applicant(s)/Patent under

KIM, YOUNGLOK

Art Unit

2611

| 1 | Rejected |
|---|----------|
| = | Allowed  |

| ı | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Claim |             | Date         |                |  |  |  |          |              |                | Claim |       |          | Date            |   |          |  |          |              |           |          |           |
|-------|-------------|--------------|----------------|--|--|--|----------|--------------|----------------|-------|-------|----------|-----------------|---|----------|--|----------|--------------|-----------|----------|-----------|
| Final | 4/11/07     |              |                |  |  |  |          |              |                |       | Final | Original |                 |   |          |  |          |              |           |          |           |
| 1     | <b>V</b>    | 1            |                |  |  |  |          |              |                | ]     |       | 51       |                 |   |          |  |          |              | Т         |          | T         |
| 2     | Ц           |              |                |  |  |  |          |              |                | ] -   |       | 52       |                 |   |          |  |          |              |           |          | T         |
| 3     | 4           | _            |                | <u> </u>   | _  |  |          |              |                | ]     |       | 53       |                 |   |          |  |          |              |           |          | I         |
| 4     | 1           | ┸            |                | <u> </u>   |  |  | _        | _            |                |       |       | 54       | <u> </u>        |   |          |  |          |              |           |          | Γ         |
| 5     | V           | -            | <u> </u>       | _  | <u> </u>   | <u> </u>   |          | <u> </u>     | L              | 1     |       | 55       | Ш               |   |          | ┖  |          |              |           |          |           |
| 6     | 0           | ╄            | _              | _  | ╙  | ļ  | L        | <u> </u>     | <u> </u>       |       |       | 56       | Ш               |   |          |  |          | L.           | L         | <u> </u> | ┸         |
| 7     | 0           | ╄-           | -              | _  | ├  | ļ  | _        | _            | <u> </u>       | 1     |       | 57       | Ш               |   |          | <u> </u>   | <u> </u> | ļ            | _         | <u> </u> | ╀         |
| 8 9   | 0           | ╄            | -              | ╁  | ⊢  |  | -        | -            | ├              |       |       | 58       | $\vdash$        |   |          | $\vdash$   | <u> </u> | <u> </u>     |           | <u> </u> | ╀         |
| 10    | <del></del> | ╁            | ┼-             | ╁  | ⊢  | -  | ├        |              | ┢              |       |       | 59<br>60 | Н               |   |          | ├  | <u> </u> | <u> </u>     | <u> </u>  | <u> </u> | ╀         |
| 11    | 0           |              | ╁              | ╀  | ┢  | -  |          | ┢            | ├              | 1     |       | 61       | -               |   |          | ⊢  |          | <del> </del> | ├         | $\vdash$ | ╀         |
| 12    |             | ╁            | ╁              | }-   | ╁  | $\vdash$   | -        | -            | ⊢              | 1     |       | 62       | Н               |   | $\vdash$ | ├  | ├        |              | -         |          | ╀         |
| 13    |             | 1            | $\vdash$       | -  | $\vdash$   |  | -        | <del> </del> | ┢              | 1     |       | 63       | $\vdash$        |   | ├        |  | -        | ⊢            | -         | ٠.       | ╁         |
| 14    |             | <del> </del> | +              | 1  | ┢  | ╁  |          |              | -              |       |       | 64       | Н               |   | ┝        | ┢╌   | -        | ┢            | ┢         |          | ╁         |
| 15    |             | t            | T              | -  |  |  |          | ┢            | $\vdash$       |       |       | 65       | Н               |   | -        | $\vdash$   |          | $\vdash$     |           |          | ╁         |
| 16    |             | <u> </u>     | $\vdash$       |  | <u> </u>   | <del>                                     </del> |          |              | T              |       |       | 66       | Н               |   |          |  | -        | ┢            | ╁         |          | $^{+}$    |
| 17    |             |              |                |  |  | Г  |          |              |                | 1     |       | 67       | П               |   |          |  |          |              |           |          | t         |
| 18    |             | 1            | Т              |  |  |  |          |              |                | 1     |       | 68       | П               |   |          |  |          |              | <b></b> - | $\vdash$ | T         |
| 19    |             |              | 1              |  |  | Г  |          |              |                | 1     |       | 69       |                 |   |          |  |          | 一            |           | İ        | T         |
| 20    |             |              | Ī              |  | Ì  |  |          |              |                | 1     |       | 70       |                 |   |          |  |          |              | T-        | <b> </b> | 1         |
| 21    |             |              |                |  |  |  |          |              |                | ]     |       | 71       |                 |   |          |  |          | <u> </u>     |           |          | T         |
| 22    |             |              |                |  |  |  |          |              |                |       |       | 72       |                 |   |          | 'n   | Π        |              |           |          | T         |
| 23    |             |              |                |  |  |  |          |              |                |       |       | 73       |                 |   |          |  |          |              |           |          | Γ         |
| 24    |             | Ц.           | <del> </del> _ |  |  |  |          |              |                |       |       | 74       |                 |   |          |  |          |              |           |          |           |
| 25    |             | _            |                | _  |  |  |          |              | _              |       |       | 75       |                 |   |          |  |          |              |           |          | L         |
| 26    |             |              | _              | _  | _  |  | _        | _            | ļ              |       |       | 76       |                 |   |          | <u> </u>   |          | _            | _         | ╙        | ╀         |
| 27    |             | _            |                | <u> </u>   | -  | <u> </u>   | L        | <u> </u>     |                |       |       | 77       | Ш               |   |          | L  |          | _            | _         |          | ╀         |
| 28    | _           | _            | <b>-</b>       | ┡  |  |  | L        | _            |                |       |       | 78       | Ш               |   |          | _  |          | ļ            | _         |          | ╀         |
| 29    |             |              | ┼              | ┝  |  | _  |          |              | <u> </u>       |       |       | 79       |                 |   |          | _  |          | _            |           | _        | ╀         |
| 30    | +           | <u> </u>     | <del> </del>   | ┢  | -  | ⊢  |          | _            | -              |       |       | 80       | Ш               |   |          | <b> </b>   |          | _            | ⊢         | <u> </u> | ╀         |
| 31    | ╁           | ⊢            | ┢              | ┢┈   | <del> </del>                                     |  | -        | _            | ⊢              |       |       | 81<br>82 |                 |   |          | ⊢  | -        | <u> </u>     |           |          | ╀         |
| 33    |             | ⊢            | 1-             | $\vdash$   | 1  | _  | -        | _            | ⊢              |       |       | 83       | $\vdash \vdash$ |   | _        | ├  | _        |              | -         |          | ╀         |
| 34    |             | $\vdash$     | $\vdash$       | -  | <del> </del>                                     |  | $\vdash$ | $\vdash$     | ├-             |       |       | 84       | $\vdash$        | - |          | $\vdash$   | $\vdash$ | -            | $\vdash$  |          | +         |
| 35    |             | <del> </del> | +-             | <del>                                     </del> | $\vdash$   | <del>                                     </del> | -        | $\vdash$     | $\vdash$       |       |       | 85       | $\vdash$        |   | _        | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$  | $\vdash$ | +         |
| 36    |             | $\vdash$     | $\vdash$       | <del> </del>                                     | $\vdash$   |  | $\vdash$ | $\vdash$     | <del> </del> - |       |       | 86       | $\vdash \vdash$ |   |          | $\vdash$   | $\vdash$ | ┢            |           | $\vdash$ | +         |
| 37    | +           | $\vdash$     | t              | <del>                                     </del> | $\vdash$   |  | Н        | <del> </del> | $\vdash$       |       |       | 87       | $\vdash$        |   |          | $\vdash$   | -        | -            | $\vdash$  | $\vdash$ | t         |
| 38    | <b>†</b>    | <del> </del> | T              |  | Т  |  |          | Ι-           |                |       |       | 88       | H               |   | _        | <del>                                     </del> | $\vdash$ | $\vdash$     | $\vdash$  | $\vdash$ | $\dagger$ |
| 39    |             | 1            |                |  | <del>                                     </del> |  |          |              |                |       |       | 89       | $\Box$          |   | _        | $\vdash$   | $\vdash$ | $\vdash$     | T         |          | T         |
| 40    |             |              |                |  |  |  |          |              |                |       |       | 90       | $\Box$          |   |          |  |          |              |           | Г        | Γ         |
| 41    |             |              |                |  |  |  |          |              |                |       |       | 91       |                 |   |          |  |          |              |           |          | Γ         |
| 42    |             |              |                |  |  |  |          |              |                |       |       | 92       |                 |   |          |  |          |              |           |          | Γ         |
| 43    |             |              |                |  |  |  |          |              |                |       |       | 93       |                 |   |          |  |          |              |           |          | Γ         |
| 44    |             | oxdot        | $\Box$         | $\Box$   | 匚  |  |          |              |                |       |       | 94       |                 |   |          |  |          |              |           |          | ſ         |
| 45    |             | <u> </u>     | $\perp$        | _  | L  | ļ  |          |              |                |       |       | 95       | Ш               |   |          |  |          | 匚            |           |          | ſ         |
| 46    | _           | <u> </u>     | <u> </u>       |  |  | Щ  |          | <u> </u>     | _              |       |       | 96       | Ш               |   |          |  |          | <u> </u>     | _         |          | L         |
| 47    | $\perp$     | <u> </u>     | <u> </u>       |  | <u> </u>   |  |          |              | ļ              |       |       | 97       | $\sqcup$        |   |          | _  |          |              | $\vdash$  | L        | L         |
| 48    |             | <u> </u>     | $\vdash$       |  | <u> </u>   | <u> </u>   | Ш        |              | _              |       |       | 98       | Щ               |   |          | <u>L</u>   | <u> </u> |              | <u> </u>  | _        | L         |
| 49    |             | ₩            | ├              | <u> </u>   | <u> </u>   | <u> </u>   |          | _            | <u> </u>       |       |       | 99       |                 |   |          | L  |          | <u> </u>     | <u> </u>  | _        | L         |
| 50    | Т           | 1            |                |  |  | <u> </u>   | نـــا    |              |                |       |       | 100      |                 |   |          |  | L        |              | <u></u>   | L        | 1_        |

| ŀ | Ciaiiii |          |                | ,            | ,        |  | Jan        | -        |              |              | _            |
|---|---------|----------|----------------|--------------|----------|--|------------|----------|--------------|--------------|--------------|
|   | Final   | Original |                |              |          |  |            |          |              |              |              |
| ı |         | 51       |                |              | _        | $\vdash$   |            | _        |              |              |              |
|   | -       | 51<br>52 | <del> </del>   | T            |          | $\vdash$   | ┢          |          |              |              |              |
| ŀ |         | 53       |                | -            | _        | <del>                                     </del> |            |          | -            | ┢╾           |              |
| ł |         | 54       | $\vdash$       |              | -        | ├  | -          |          | $\vdash$     | ┢            | -            |
| ł |         | 55       | ┢┈             | -            | $\vdash$ | $\vdash$   | $\vdash$   |          | -            | ╁            | H            |
| - |         | 56       | $\vdash$       |              |          | $\vdash$   |            | _        | $\vdash$     | ┢            | H            |
| ł |         | 57       | $\vdash$       | ╁            | -        | ┢  |            | -        | -            | -            | ⊢            |
| ł |         | 58       | $\vdash$       |              |          |  | -          | _        | -            | ┢            | H            |
| ł |         | 59       | $\vdash$       |              |          |  |            | -        |              | $\vdash$     | ┢            |
| ł |         | 60       | $\vdash$       | ┢            | 1        |  | ┢          | -        |              | ⊢            | ├─           |
| ł |         | 61       |                | ⊢            | ⊢        |  | ├          |          | -            | $\vdash$     | $\vdash$     |
| ł |         | 62       | -              | ⊢            | $\vdash$ |  |            | _        |              |              | -            |
| ŀ |         | 63       | <del>  -</del> |              | -        |  | -          | ┝        | _            | ٠.           |              |
| ŀ |         | 64       | _              |              |          |  |            | <u> </u> | ├            |              |              |
| - |         | 04<br>65 | H              | ⊢            | _        | _  |            | _        | <u> </u>     |              |              |
|   |         | 65<br>66 | _              | _            |          | _  | _          | <u> </u> | _            |              |              |
| - |         | 66       |                | -            | -        |  |            |          |              |              |              |
| ŀ | •       | 67       |                | -            | <u> </u> | _  |            |          |              | _            |              |
| ŀ |         | 68       |                | ┡            | <u> </u> | <u> </u>   | <u> </u>   | <u> </u> |              |              |              |
| ŀ |         | 69       |                | ┡            | _        | <u> </u>   |            |          | ļ            |              |              |
| ŀ |         | 70       |                |              | _        |  | _          |          | _            | <u> </u>     |              |
| ŀ |         | 71<br>72 |                |              | <u> </u> | <u> </u>   | _          |          | _            |              | <u> </u>     |
| ļ |         | 72       |                | L_           | <u> </u> | <u>'</u>   |            |          | $oxed{oxed}$ | $oxed{oxed}$ | L_           |
| ļ |         | 73       | L.,            | _            | <u> </u> |  | lacksquare |          | _            | L            |              |
|   |         | 74       |                |              | L        |  |            |          |              |              |              |
| ļ |         | 75       |                |              | L        | L  | _          |          |              |              |              |
| ļ |         | 76       |                |              |          |  | _          |          |              |              |              |
| ļ |         | 77       |                |              | <u> </u> | L.   |            |          |              | L            |              |
| ļ |         | 78       |                |              |          | _  |            |          |              | <u> </u>     |              |
| 1 |         | 79       |                |              | <u> </u> |  |            |          |              |              | L_           |
| 1 |         | 80       | L              | L            |          | _  |            |          |              |              |              |
| ļ |         | 81       |                | <u> </u>     |          |  |            |          |              |              | $oxed{oxed}$ |
| ļ |         | 82<br>83 |                | <u> </u>     | L        |  |            |          |              |              |              |
| ļ |         | 83       |                |              |          |  |            |          |              |              |              |
|   |         | 84       | Ш              | L_           | L        | <u> </u>   |            |          |              | Ш            | Щ            |
| 1 |         | 85       |                | <u> </u>     | Ш        | Щ  | Щ          |          |              |              | Ш            |
| Ţ |         | 86       |                | <u> </u>     |          |  |            |          |              |              |              |
| - |         | 87       |                | L_           |          |  |            |          |              |              | Щ            |
| ļ |         | 88       |                |              |          |  |            |          |              |              |              |
| ļ |         | 89       |                | Ш            |          |  | Ш          |          |              |              |              |
| ļ |         | 90       |                | Ш            | Щ        |  |            |          |              |              | Ш            |
| ļ |         | 91       |                |              | Ш        |  | Ш          |          |              |              |              |
| ļ |         | 92       |                | <u> </u>     |          |  | Ш          |          |              |              |              |
| ļ |         | 93       |                | <u> </u>     |          |  | Ш          |          |              |              | Ш            |
|   |         | 94       |                | $oxed{oxed}$ |          |  |            |          |              |              |              |
| ļ |         | 95       |                |              |          |  |            |          | L            |              | Ш            |
| L |         | 96       |                | Ш            |          |  |            |          |              |              |              |
| L |         | 97       |                | <u> </u>     |          |  |            |          |              |              |              |
| - |         | 98       |                |              |          |  |            |          |              |              |              |
| 1 |         | 99       |                |              |          |  |            |          |              |              |              |
| 1 |         | 100      | 1 1            | 1            | 1 7      | 1 1  | 1          | 1 1      | 1 3          | 1 1          | 1            |

| Cla   | aim   | Date     |          |  |              |            |          |  |          |                |  |  |
|-------|---|----------|----------|--|--------------|------------|----------|--|----------|----------------|--|--|
| Final | Original  |          |          |  |              |            |          |  |          |                |  |  |
|       | 101<br>102  |          |          |  |              |            |          |  |          |                |  |  |
|       | 102   |          |          |  |              |            |          |  |          |                |  |  |
|       | 103   | _        |          |  | _            | ļ          |          | _  |          |                |  |  |
|       | 103<br>104<br>105   | L        | ļ        |  | _            | <u> </u>   | _        | _  |          |                |  |  |
|       | 105   | ļ        | -        |  | <u> </u>     |            | <u> </u> | <u> </u>   | _        | Ш              |  |  |
|       | 106   |          | <u> </u> |  | -            | $\vdash$   | -        | <u> </u>   | _        | $\square$      |  |  |
|       | 106<br>107<br>108   | ├        | $\vdash$ |  |              | ┢          |          | -  | ┢        | H              |  |  |
|       | 100   |          | $\vdash$ |  | <del> </del> | $\vdash$   |          | -  | $\vdash$ | $\vdash$       |  |  |
|       | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117 |          | $\vdash$ | <del>                                     </del> | $\vdash$     | $\vdash$   |          |  |          | $\vdash$       |  |  |
|       | 111   | $\vdash$ | 1        |  |              |            |          | <del>                                     </del> |          | $\vdash$       |  |  |
|       | 112   |          |          |  |              |            |          | Т  |          |                |  |  |
|       | 113   |          |          |  |              |            |          |  |          | П              |  |  |
|       | 114   |          |          |  |              |            |          | _  |          |                |  |  |
|       | 115   |          |          |  |              |            |          |  |          |                |  |  |
|       | 116   |          | _        |  |              | _          |          |  |          |                |  |  |
|       | 117   |          | _        |  |              |            | _        |  | _        | Ш              |  |  |
|       | 118   |          | L.       | <u> _</u>  |              | <u> </u>   | <u> </u> | _  |          | Ш              |  |  |
|       | 119   |          | <u> </u> | _  | _            | ┞          | <u> </u> | _  | ┡        | Щ              |  |  |
|       | 120<br>121<br>122   |          | <u> </u> |  | <del> </del> | <b>├</b> — | ⊢        |  | <u> </u> |                |  |  |
|       | 121   |          | -        |  | _            | -          | ⊢        | $\vdash$   |          |                |  |  |
|       | 122   | -        | _        | ⊢  | $\vdash$     |            | $\vdash$ |  |          | $\vdash\vdash$ |  |  |
|       | 123<br>124<br>125   | _        |          | $\vdash$   | $\vdash$     |            | $\vdash$ |  |          | Н              |  |  |
|       | 125   |          | $\vdash$ |  | _            |            |          | $\vdash$   |          | Н              |  |  |
|       | 126   |          | -        | _  | -            |            |          |  |          | $\Box$         |  |  |
|       | 126<br>127<br>128<br>129<br>130                             |          | -        |  |              |            |          |  |          | П              |  |  |
|       | 128   |          |          |  | _            |            |          |  |          |                |  |  |
|       | 129   |          |          |  |              |            |          |  |          |                |  |  |
|       | 130   |          |          |  |              |            |          |  |          |                |  |  |
|       | 131<br>132<br>133   |          |          |  |              |            |          |  | <u> </u> |                |  |  |
|       | 132   | L.,      |          | _  |              |            |          |  | <u> </u> | Щ              |  |  |
|       | 133   |          |          |  |              |            | <u> </u> |  | _        |                |  |  |
|       | 135   |          |          |  | _            | $\vdash$   | _        |  |          |                |  |  |
|       | 134<br>135<br>136   |          | $\vdash$ |  | _            | $\vdash$   | <u> </u> |  |          | _              |  |  |
|       | 137   |          | $\vdash$ |  |              |            |          |  | -        |                |  |  |
|       | 137<br>138  |          | $\vdash$ |  |              | <b>-</b>   |          |  |          |                |  |  |
|       | 139   |          |          |  |              |            |          |  |          |                |  |  |
|       | 140   | _        |          |  |              |            |          | ,  |          |                |  |  |
|       | 141   |          |          |  |              |            |          |  |          |                |  |  |
|       | 142   |          |          |  |              |            |          |  |          |                |  |  |
|       | 143   |          |          |  |              |            |          |  |          | Ш              |  |  |
|       | 144   |          |          |  |              |            |          |  |          | Щ              |  |  |
|       | 145   |          |          |  |              | Ш          |          |  |          | Ш              |  |  |
|       | 146   | _        | <u> </u> |  |              | -          | ļ        |  | <u> </u> | Н              |  |  |
|       | 147<br>148  |          |          | H  |              | $\vdash$   |          |  | $\vdash$ |                |  |  |
|       | 149   | -        |          |  | -            |            | -        |  | $\vdash$ | $\vdash$       |  |  |
|       | 150   |          | $\vdash$ | $\vdash$   |              |            | $\vdash$ |  | $\vdash$ | $\dashv$       |  |  |
|       | 150   |          |          | لـــا  |              | Ц.,        |          |  |          |                |  |  |